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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/036,762	12/21/2001	Abbas Rashid	NEXSI-01223US0	6231
28863	7590 01/11/2006		EXAMINER	
SHUMAKER & SIEFFERT, P. A.			HARPER, KEVIN C	
V	NS PARKWAY		ART UNIT	PAPER NUMBER
SUITE 105			ARTONIT	TALER NOMBER
ST. PAUL, MN 55125 2666				
		DATE MAILED: 01/11/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)
		10/036,762	RASHID ET AL.
	Office Action Summary	Examiner	Art Unit
		Kevin C. Harper	2666
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the c	correspondence address
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status			
1)⊠	Responsive to communication(s) filed on 30 Se	eptember 2005.	
2a)[☐	This action is FINAL . 2b)⊠ This	action is non-final.	
3)□	Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the merits is
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.
Disposit	ion of Claims		
5)□ 6)⊠ 7)⊠	Claim(s) 39-62 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 39-45,49-53 and 57-62 is/are rejected Claim(s) 46-48 and 54-56 is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.	
Applicat	ion Papers		
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acceed applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority (under 35 U.S.C. § 119		
12)□ a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· —	
	rno(s)/Mail Date <u>7/05, 10/05</u> .	6) Other:	diont replication (i 10-102)

Response to Arguments

Applicant's arguments, filed September 30, 2005 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Lea in view of Ikeda.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 39-43, 50-53 and 57-61 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lea (US 6,115,373) in view of Ikeda (5,787,073).

1. Regarding claims 39-43, 50-53 and 57-61, Lea discloses a cross bar switch (fig. 10) comprising a set of input ports (fig. 1, item 2), a set of sink ports (item 3) that includes a communication link interface (fig. 3) including a retry input (col. 6, lines 22-24) where a sink port responds to the signal on the retry input (col. 6, lines 24-27). However, Lea does not disclose that the sink port aborts transmission of a data packet and transmits the data packet after waiting an amount of time. Ikeda discloses aborting data packet transmission and transmitting the data packet after waiting an amount of time (col. 4, lines 1-3). The transmission is paused until the signal is altered (col. 5, lines 65-67; note: an ER value explicitly indicates a data rate for backpressure). The switch includes a register for maintaining congestion state values (col. 3, lines 40-52) which is used for pausing a predetermined amount of time (col. 3, lines 60-62). Therefore, it would have been

Art Unit: 2666

obvious to one skilled in the art at the time the invention was made for the output port to pause the transmission of packets in the invention of Lea in order to stop transmission to a congested switch (Ikeda, col. 3, lines 53-60).

Claims 44-45 and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lea (US 6,115,373) in view of Ikeda (5,787,073), as applied to claim 39 above, in further view of Karol (US 5,416,769).

2. Regarding claims 44-45 and 49, Lea in view of Ikeda does not disclose a set of data rings in communication with the input ports and sink ports. Karol discloses a several rings (fig. 1, item 105) in communication with a set of input ports (items 101) and sink ports (items 103). The switch includes a storage buffer (fig. 3, item 18; note: delay lines). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a set of data rings in communication with the ports in the invention of Lea in order to provide a non-blocking switch (Karol, col. 1, lines 11-20; col. 2, lines 3-15).

Claim 62 is are rejected under 35 U.S.C. 103(a) as being unpatentable over Lea (US 6,115,373) in view of Ikeda (5,787,073), as applied to claim 57 above, in further view of Joung et al. (US 6,628,613).

3. Lea in view of Ikeda does not disclose a communication interface as a collision output. Joung discloses an output of a switch as a collision output (fig. 1). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have a collision output in the invention of Lea in view of Ikeda in order to provide a connection to an Ethernet-based network (col. 1, lines 26-32).

Allowable Subject Matter

Claims 46-48, 54-56 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Harper whose telephone number is 571-272-3166. The examiner can normally be reached weekdays from 11:00 AM to 7:00 PM ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema S. Rao, can be reached at 571-272-3174. The centralized fax number for the Patent Office is 571-273-8300. For non-official communications, the examiner's personal fax number is 571-273-3166 and the examiner's e-mail address is kevin.harper@uspto.gov.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications associated with a customer number is available through Private PAIR only. For more information about the PAIR system, see portal uspto gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kevin C. Harper

January 9, 2006